



ELSEVIER

Microporous and Mesoporous Materials 24 (1998) 249–250

MICROPOROUS AND
MESOPOROUS MATERIALS

Contents

Solid-state ion exchange in beta zeolites. I Alkaline chlorides/ NH_4 - β V.P. Mavrodinova	1
Solid-state ion exchange in beta zeolites. II Systems ammonium chloride/Na-, Cs- and H- β V.P. Mavrodinova	9
An investigation of KF modification to generate strong basic sites on NaY zeolite J.H. Zhu, Y. Chun, Y. Qin and Q.-H. Xu	19
Coal studies by small angle X-ray scattering A.C. Mitropoulos, K.L. Stefanopoulos and N.K. Kanellopoulos	29
IR study of CO and NO_x sorption on Ag-ZSM-5 K.I. Hadjiivanov	41
Characterization and neutralizing properties of a natural zeolite/ Na_2CO_3 composite material A. Rivera, G. Rodríguez-Fuentes and E. Altshuler	51
Surface acidity of Al-, Ga- and Fe-silicate analogues of zeolite NCL-1 characterized by FTIR, TPD (NH_3) and catalytic methods M. Sasidharan, S.G. Hegde and R. Kumar	59
Comparison of conventional and solid-state ion exchange procedures for the incorporation of lanthanum in H-beta zeolite C. Jia, P. Beaunier and P. Massiani	69
A novel triclinically deformed chabazite-like aluminophosphate prepared in the presence of tris(1,2- diaminoethane)nickel(II) chloride N. Rajic, A. Meden, P. Sarv and V. Kaucic	83
An in situ diffuse reflectance FTIR study of the cyclodimerization of 1,3-butadiene over Cu-exchanged zeolites T.V. Voskoboinikov, B. Coq, F. Fajula, R. Brown, G. McDougall and J.L. Couturier	89
Study of high-silica H-ZSM-5 acidity by ^1H NMR techniques using water as base L. Heeribout, C. Dorémieux-Morin, J.-P. Nogier, R. Vincent and J. Fraissard	101
Newsbrief	113
The dispersion and solid-state ion exchange of ZnCl_2 onto the surface of NaY zeolite using microwave irradiation D. Yin and D. Yin	123
Zeolites as matrices for the stabilization of unusual cationic zinc species F. Rittner, A. Seidel and B. Boddenberg	127

Synthesis and characterisation of [TH] [ZnGaP ₂ O ₈] (T = CN ₃ H ₅ and C ₄ NH ₉); two microporous zinc-gallium phosphates with the gismondine structure A.M. Chippindale, A.R. Cowley and K.J. Peacock	133
Study of the reductive solid-state ion exchange of indium into an NH ₄ -beta zeolite R.M. Mihályi, H.K. Beyer, V. Mavrodinova, C. Minchev and Y. Neinska	143
A computational investigation into the effect of extra framework cations on the structural composition of heulandite-type zeolites Y.M. Channon, C.R.A. Catlow, R.A. Jackson and S.L. Owens	153
Influence of TS-1 structural properties and operation conditions on benzene catalytic oxidation with H ₂ O ₂ J.F. Bengoa, N.G. Gallegos, S.G. Marchetti, A.M. Alvarez, M.V. Cagnoli and A.A. Yeramían	163
Pillaring of saponite with zirconium oligomers R. Toranzo, M.A. Vicente, M.A. Bañares-Muñoz, L.M. Gandía and A. Gil	173
A novel monoclinic AlPO ₄ -sodalite formed in the presence of dimethylformamide as template and solvent L. Vidal, J.L. Paillaud and Z. Gabelica	189
Zeolite synthesis in the presence of azonia-spiro compounds as structure-directing agents R. Millini, L. Carluccio, F. Frigerio, W. O'Neil Parker, Jr and G. Bellussi	199
Alumina-pillared α -zirconium phosphate prepared by in-situ polymerization method J. Xu and Z. Gao	213
Determination and properties of acid sites in H-ferrierite. A comparison of ferrierite and MFI structures B. Wichterlová, Z. Tvarůžková, Z. Sobalík and P. Sarv	223
Newsbrief	235
Author Index, Vol. 24	245
Subject Index, Vol. 24	247
Cumulative Contents Vol. 24	249

